

Serial No.: 10/550,090
Atty. Docket No.: P70856US0

IN THE CLAIMS:

Please cancel and add new claims as follows:

Claims 1-5 (Cancelled).

6. (New) A computer-implemented dialogue learning system for teaching a language which is capable of automatically generating from a correct expression of a sentence a plurality of incorrect expressions of the sentence, the system comprising a template-template that contains within itself a plurality of templates and a plurality of nodes marked with label symbols that are associated with extraction rules, said system including a plurality of error rules by which the template-template can be expanded by adding a plurality of incorrect expressions of the sentence thereto as defined by the error rules, said extraction rules configured to extract a template from said template-template by including, excluding or modifying certain nodes of said template-template based on a value of the label symbols marking said nodes, said extracted template including at least one correct expression of the sentence and a plurality of incorrect expressions of the sentence, said system, by automatically defining a plurality of common incorrect expressions of the sentence according to the error rules,

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providing for automatic diagnosis of grammatical errors committed by a learner.

7. (New) The computer-implemented system as set forth in claim 6, wherein each of said extraction rules is associated with a set of said label symbols ($s_1, s_2, \dots s_n$), with each symbol in said set being assigned one or more values.

8. (New) The computer-implemented system as set forth in claim 7, wherein each of said extraction rules is one of a plurality of rule types, with a first rule type providing that the symbol value of a particular node is either "appear" or "not appear", said system being configured to extract a template according to said first rule type by including in said extracted template either all the nodes having a symbol value of "appear" or all of the nodes having a symbol value of "not appear", but not both of these symbol values.

9. (New) The computer-implemented system as set forth in claim 8, wherein said plurality of rule types further includes a second rule type providing that the symbol value of a particular node is either a personal pronoun or a personal pronoun possessive

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with each being defined by language grammar rules applicable to the language being learned.

10. (New) The computer-implemented system as set forth in claim 9, wherein said plurality of rule types further includes a third rule type providing that the symbol value of a particular node is an arbitrary number.

11. (New) The computer-implemented system as set forth in claim 10, wherein said plurality of rule types further includes a fourth rule type providing that for all nodes marked with the fourth rule type, only one of said fourth rule type nodes can appear in the extracted template.

12. (New) An automated computer-implementable dialogue learning system for teaching a language which is capable of automatically generating from a correct expression of a sentence a plurality of possible incorrect expressions of the sentence, said system comprising a template-template that contains within itself a plurality of templates and a plurality of nodes marked with label symbols that are associated with extraction rules, said template-template including at least one correct expression of a sentence,

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said system including a plurality of error rules by which the template-template can be expanded to include at least one incorrect expression of said sentence, said extraction rules configured to extract a template from said template-template by including, excluding or modifying certain nodes of said template-template based on a value of the label symbols marking said nodes, said extracted template including at least one correct expression of the sentence and at least one incorrect expression of the sentence, said system, by automatically defining a plurality of common incorrect expressions of the sentence according to the error rules, providing for automatic diagnosis of grammatical errors committed by a learner.

13. (New) The automated computer-implementable system as set forth in claim 12, wherein each of said extraction rules is associated with a set of said label symbols ($s_1, s_2, \dots s_n$), with each symbol in said set being assigned one or more values.

14. (New) The automated computer-implementable system as set forth in claim 13, wherein each of said extraction rules is one of a plurality of rule types, with a first rule type providing that the symbol value of a particular node is either "appear" or "not appear", said system being configured to extract a template

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according to said first rule type by including in said extracted template either all the nodes having a symbol value of "appear" or all of the nodes having a symbol value of "not appear", but not both of these symbol values.

15. (New) The automated computer-implementable system as set forth in claim 14, wherein said plurality of rule types further includes a second rule type providing that the symbol value of a particular node is either a personal pronoun or a personal pronoun possessive with each being defined by language grammar rules applicable to the language being learned.

16. (New) The automated computer-implementable system as set forth in claim 15, wherein said plurality of rule types further includes a third rule type providing that the symbol value of a particular node is an arbitrary number.

17. (New) The automated computer-implementable system as set forth in claim 16, wherein said plurality of rule types further includes a fourth rule type providing that for all nodes marked with the fourth rule type, only one of said fourth rule type nodes can appear in the extracted template.

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18. (New) The automated computer-implementable system as set forth in claim 12, wherein a plurality of templates can be automatically generated from said template-template by said computer system based on the label symbols marking said nodes and the extraction rules applied thereto.

19. (New) The automated computer-implementable system as set forth in claim 12, wherein said extracted template includes a plurality of correct expressions of the sentence defined by a plurality of paths across the extracted template and a plurality of incorrect expressions of the sentence defined by a plurality of paths across the extracted template, said system using a heaviest common sequence algorithm to automatically determine an optimal path from said plurality of paths for said sentence.

20. (New) The automated computer-implementable system as set forth in claim 19, wherein said system is configured to select the heaviest common sequence based on dynamic programming on a plurality of possible paths that could be extracted from the template-template without actually extracting all of said possible paths from the template-template.